



Seq.ST25.txt
SEQUENCE LISTING

<110> Samson, Michael
Parmentier, Marc
Vassart, Gilbert
Frederic, Libert

<120> Screening Methods for Identifying Compounds which Decrease HIV Entry into a Cell

<130> 9409/2023F

<140> 10/661,798

<141> 2003-09-12

<150> 09/938,703

<151> 2001-08-24

<150> 09/626,939

<151> 2000-07-27

<150> 08/833,752

<151> 1997-04-09

<150> 08/810,028

<151> 1997-03-03

<150> EP 96870021.1

<151> 1996-03-01

<150> EP 96870102.9

<151> 1996-08-06

<160> 18

<170> PatentIn version 3.1

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<213> Homo sapiens

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tatgtaggca attaaaaacc tattgatgta taaaacagtt tgcattcatg gagggcaact	180
aaatacattc taggacttta taaaagatca ctttttattt atgcacaggg tggacaaga	240
tggattatca agtgtcaagt ccaatctatg acatcaatta ttatacatcg gagccctgcc	300
aaaaaatcaa tgtgaagcaa atcgagccc gcctcctgcc tccgctctac tactggtgt	360
tcattcttgg ttttgtgggc aacatgctgg tcattctcat cctgataaac tgcaaaaggc	420
tgaagagcat gactgacatc tacctgctca acctggccat ctctgacctg ttttccctc	480
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tcctgacaat cgataggtac ctggctgtcg tccatgctgt gtttgcttta aaagccagga	660
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tatgtaggca attaaaaacc tattgatgta taaaacagtt tgcattcatg gagggcaact	180
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tggattatca agtgtcaagt ccaatctatg acatcaatta ttatacatcg gagccctgcc	300
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tggattatca	agtgtcaagt	ccaatctatg	acatcaatta	ttatacatcg	gagccctgcc	300
aaaaaatcaa	tgtgaagcaa	atcgagccc	gcctcttgcc	tccgctctac	tactggtgt	360
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attttccata	cattaaagat	agtcactctg	gggctgggtcc	tgccgctgct	tgtcatggtc	840
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agggtgtga	ggcttatctt	caccatcatg	attgtttatt	ttctcttctg	ggctccctac	960
aacattgtcc	ttctcctgaa	caccttccag	gaattctttg	gcctgaataa	ttgcagtagc	1020
tctaacaggt	tggaccaagc	tatgcagggtg	acagagactc	ttgggatgac	gactgctgc	1080
atcaacccca	tcatctatgc	ctttgtcggg	gagaagttca	gaaactacct	cttagtcttc	1140
ttccaaaagc	acattgccaa	acgcttctgc	aaatgctgtt	ctattttcca	gcaagaggct	1200
cccagcgcag	caagctcagt	ttacacccga	tccactgggg	agcaggaaat	atctgtgggc	1260

Seq.ST25.txt

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Leu Pro Pro Leu Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn
35 40 45

Met Leu Val Ile Leu Ile Leu Ile Asn Cys Lys Arg Leu Lys Ser Met
50 55 60

Thr Asp Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp Leu Phe Phe Leu
65 70 75 80

Leu Thr Val Pro Phe Trp Ala His Tyr Ala Ala Ala Gln Trp Asp Phe
85 90 95

Gly Asn Thr Met Cys Gln Leu Leu Thr Gly Leu Tyr Phe Ile Gly Phe
100 105 110

Phe Ser Gly Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu
115 120 125

Ala Val Val His Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe
130 135 140

Gly Val Val Thr Ser Val Ile Thr Trp Val Val Ala Val Phe Ala Ser
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Thr Cys Ser Ser His Phe Pro Tyr
180

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 <213> Homo sapiens

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 20 25 30

Leu Pro Pro Leu Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn
 35 40 45

Met Leu Val Ile Leu Ile Leu Ile Asn Cys Lys Arg Leu Lys Ser Met
 50 55 60

Thr Asp Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp Leu Phe Phe Leu
 65 70 75 80

Leu Thr Val Pro Phe Trp Ala His Tyr Ala Ala Ala Gln Trp Asp Phe
 85 90 95

Gly Asn Thr Met Cys Gln Leu Leu Thr Gly Leu Tyr Phe Ile Gly Phe
 100 105 110

Phe Ser Gly Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu
 115 120 125

Ala Val Val His Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe
 130 135 140

Gly Val Val Thr Ser Val Ile Thr Trp Val Val Ala Val Phe Ala Ser
 145 150 155 160

Leu Pro Gly Ile Ile Phe Thr Arg Ser Gln Lys Glu Gly Leu His Tyr
 165 170 175

Thr Cys Ser Ser His Phe Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn
 180 185 190

Phe Gln Thr Leu Lys Ile Val Ile Leu Gly Leu Val Leu Pro Leu Leu
 195 200 205

Val Met Val Ile Cys Tyr Ser Gly Ile Leu Lys Thr Leu Leu Arg Cys
 210 215 220

Seq.ST25.txt

Arg Asn Glu Lys Lys Arg His Arg Ala Val Arg Leu Ile Phe Thr Ile
225 230 235 240

Met Ile Val Tyr Phe Leu Phe Trp Ala Pro Tyr Asn Ile Val Leu Leu
245 250 255

Leu Asn Thr Phe Gln Glu Phe Phe Gly Leu Asn Asn Cys Ser Ser Ser
260 265 270

Asn Arg Leu Asp Gln Ala Met Gln Val Thr Glu Thr Leu Gly Met Thr
275 280 285

His Cys Cys Ile Asn Pro Ile Ile Tyr Ala Phe Val Gly Glu Lys Phe
290 295 300

Arg Asn Tyr Leu Leu Val Phe Phe Gln Lys His Ile Ala Lys Arg Phe
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Cys Lys Cys Cys Ser Ile Phe Gln Gln Glu Ala Pro Glu Arg Ala Ser
325 330 335

Ser Val Tyr Thr Arg Ser Thr Gly Glu Gln Glu Ile Ser Val Gly Leu
340 345 350

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<213> Homo sapiens

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Met Asp Tyr Gln Val Ser Ser Pro Ile Tyr Asp Ile Asn Tyr Tyr Thr
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Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala Ala Arg Leu
20 25 30

Leu Pro Pro Leu Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn
35 40 45

Met Leu Val Ile Leu Ile Leu Ile Asn Cys Lys Arg Leu Lys Ser Met
50 55 60

Thr Asp Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp Leu Phe Phe Leu
65 70 75 80

Leu Thr Val Pro Phe Trp Ala His Tyr Ala Ala Ala Gln Trp Asp Phe
85 90 95

Seq.ST25.txt

Gly Asn Thr Met Cys Gln Leu Leu Thr Gly Leu Tyr Phe Ile Gly Phe
100 105 110

Phe Ser Gly Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu
115 120 125

Ala Val Val His Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe
130 135 140

Gly Val Val Thr Ser Val Ile Thr Trp Val Val Ala Val Phe Ala Ser
145 150 155 160

Leu Pro Gly Ile Ile Phe Thr Arg Ser Gln Lys Glu Gly Leu His Tyr
165 170 175

Thr Cys Ser Ser His Phe Pro Tyr Ile Lys Asp Ser His Leu Gly Ala
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Gly Pro Ala Ala Ala Cys His Gly His Leu Leu Leu Gly Asn Pro Lys
195 200 205

Asn Ser Ala Ser Val Ser Lys
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<210> 7
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35 40 45

Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn Met Leu Val Val
50 55 60

Leu Ile Leu Ile Asn Cys Lys Lys Leu Lys Cys Leu Thr Asp Ile Tyr
Page 7

65 70 80
Leu Leu Asn Leu Ala Ile Ser Asp Leu Leu Phe Ile Ile Thr Leu Pro
 85 90 95
Leu Trp Ala His Ser Ala Ala Asn Glu Trp Val Phe Gly Asn Ala Met
 100 105 110
Cys Lys Leu Phe Thr Gly Leu Tyr His Ile Gly Tyr Phe Gly Gly Ile
 115 120 125
Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His
 130 135 140
Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe Gly Val Val Thr
145 150 155 160
Ser Val Ile Thr Trp Leu Val Ala Val Phe Ala Ser Val Pro Gly Ile
 165 170 175
Ile Phe Thr Lys Cys Gln Lys Glu Asp Ser Val Tyr Val Cys Gly Pro
 180 185 190
Tyr Phe Pro Arg Gly Trp Asn Asn Phe His Thr Ile Met Arg Asn Ile
 195 200 205
Leu Gly Leu Val Leu Pro Leu Leu Ile Met Val Ile Cys Tyr Ser Gly
 210 215 220
Ile Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys Arg His Arg
225 230 235 240
Ala Val Arg Val Ile Phe Thr Ile Met Ile Val Tyr Phe Leu Phe Trp
 245 250 255
Thr Pro Tyr Asn Ile Val Ile Leu Leu Asn Thr Phe Gln Glu Phe Phe
 260 265 270
Gly Leu Ser Asn Cys Glu Ser Thr Ser Gln Leu Asp Gln Ala Ile Gln
 275 280 285
Val Thr Glu Thr Leu Gly Met Thr His Cys Cys Ile Asn Pro Ile Ile
 290 295 300
Tyr Ala Phe Val Gly Glu Lys Phe Arg Arg Tyr Ile Ser Val Phe Phe
305 310 315 320

Seq.ST25.txt
 Arg Lys His Ile Xaa Xaa Xaa Phe Cys Lys Gln Cys Pro Val Phe Tyr
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Arg Glu Thr Val Asp Gly Val Thr Ser Thr Asn Thr Pro Ser Thr Gly
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Glu Gln Glu Val Ser Ala Gly Leu
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 <213> Homo sapiens

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 <223> Xaa = amy amino acid

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 20 25 30

Met Ala Gln Phe Val Pro Pro Leu Tyr Ser Leu Val Phe Thr Val Gly
 35 40 45

Leu Ile Gly Asn Val Val Val Val Met Ile Leu Ile Lys Tyr Arg Arg
 50 55 60

Ile Arg Ile Met Thr Asn Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp
 65 70 75 80

Leu Leu Phe Ile Val Thr Leu Pro Phe Trp Thr His Tyr Val Arg Gly
 85 90 95

His Asn Trp Val Phe Gly His Gly Met Cys Asn Leu Ile Ser Gly Phe
 100 105 110

Tyr His Thr Gly Leu Tyr Ser Glu Ile Phe Phe Ile Ile Leu Leu Thr
 115 120 125

Seq.ST25.txt

Ile Asp Arg Tyr Leu Ala Ile val His Ala Val Phe Ala Ile Arg Ala
 130 135 140

Arg Thr Val Thr Phe Gly Val Ile Thr Ser Ile Val Thr Trp Gly Ile
 145 150 155 160

Ala Val Ile Ala Ala Leu Pro Glu Phe Ile Phe Tyr Glu Thr Glu Glu
 165 170 175

Leu Phe Glu Glu Thr Ile Cys Ser Ala Leu Tyr Pro Glu Asp Thr Val
 180 185 190

Tyr Ser Trp Arg His Phe His Thr Ile Arg Met Thr Ile Phe Cys Leu
 195 200 205

Val Leu Pro Leu Leu Val Met Ala Ile Cys Tyr Thr Gly Ile Ile Lys
 210 215 220

Thr Leu Leu Arg Cys Pro Xaa Xaa Xaa Lys Tyr Lys Ala Ile Arg Leu
 225 230 235 240

Ile Phe Val Ile Met Ala Val Phe Phe Ile Glu Trp Thr Pro Tyr Asn
 245 250 255

Val Ala Ile Leu Ile Ser Ser Tyr Gln Ser Leu Leu Phe Gly Asn Asn
 260 265 270

Cys Glu Arg Ser Lys His Leu Asp Leu Val Met Ile Val Thr Glu Val
 275 280 285

Ile Ala Tyr Ser His Cys Cys Met Asn Glu Val Ile Tyr Ala Phe Val
 290 295 300

Gly Glu Arg Phe Arg Lys Tyr Ile Arg His Phe Phe His Arg His Leu
 305 310 315 320

Leu Met His Leu Gly Arg Tyr Ile Pro Phe Leu Pro Xaa Xaa Xaa Ile
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Glu Arg Ile Ser Ser Val Ser Pro Ser Thr Ala Glu Pro Glu Ile Ser
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Ile Val Phe
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<210> 9
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Seq.ST25.txt

<213> Homo sapiens

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Gly Ala Gln Leu Leu Pro Pro Leu Tyr Ser Leu Val Phe Val Ile Gly
 35 40 45

Leu Val Gly Asn Ile Leu Val Val Leu Val Leu Val Gln Tyr Lys Arg
 50 55 60

Leu Lys Asn Met Thr Ser Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp
 65 70 75 80

Leu Leu Phe Ile Phe Thr Leu Pro Phe Trp Ile Asp Tyr Lys Leu Lys
 85 90 95

Asp Asp Trp Val Phe Gly Asp Ala Met Cys Lys Ile Ile Ser Gly Phe
 100 105 110

Tyr Tyr Thr Gly Leu Tyr Ser Glu Ile Phe Phe Ile Ile Leu Leu Thr
 115 120 125

Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe Ala Ile Arg Ala
 130 135 140

Arg Thr Val Thr Phe Gly Val Ile Thr Ser Ile Ile Ile Trp Ala Ile
 145 150 155 160

Ala Ile Ile Ala Ser Met Pro Gly Leu Tyr Phe Ser Lys Thr Gln Trp
 165 170 175

Glu Phe Thr His His Thr Cys Ser Leu His Phe Pro His Glu Ser Leu
 180 185 190

Arg Glu Trp Lys Leu Phe Gln Ala Leu Lys Leu Asn Leu Phe Gly Leu
 195 200 205

Val Leu Pro Leu Leu Val Met Ile Ile Cys Tyr Ile Gly Ile Ile Lys
 210 215 220

Ile Leu Leu Arg Arg Pro Asn Glu Lys Lys Ser Lys Ala Val Arg Leu
 225 230 235 240

Seq.ST25.txt

Ile Phe Val Ile Met Ile Ile Phe Phe Leu Phe Trp Ile Pro Tyr Asn
245 250 255

Leu Thr Ile Ile Ile Ser Val Phe Gln Asp Phe Leu Phe Thr His Glu
260 265 270

Cys Glu Gln Ser Arg His Leu Asp Leu Ala Val Gln Val Thr Glu Val
275 280 285

Ile Ala Tyr Thr His Cys Cys Val Asn Glu Val Ile Tyr Ala Phe Val
290 295 300

Gly Glu Arg Phe Arg Lys Tyr Ile Arg Gln Leu Glu His Arg Arg Val
305 310 315 320

Ala Val His Leu Val Lys Trp Leu Pro Phe Leu Ser Val Asp Arg Ile
325 330 335

Glu Arg Val Ser Ser Thr Ser Pro Ser Thr Gly Glu His Glu Ile Ser
340 345 350

Ala Gly Phe
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<210> 10
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<213> Homo sapiens

<220>
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<222> (145)..(147)
<223> Xaa = any amino acid

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<223> Xaa = any amino acid

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20 25 30

Gly Ile Lys Ala Phe Gly Glu Leu Phe Leu Pro Pro Leu Tyr Ser Leu
35 40 45

Seq.ST25.txt

Val Glu Val Phe Gly Leu Ile Gly Asn Ser Val Val Val Leu Val Leu
 50 55 60
 Phe Lys Tyr Lys Arg Ile Arg Ser Met Thr Asp Val Tyr Leu Leu Asn
 65 70 75 80
 Leu Ala Ile Ser Asp Leu Leu Phe Val Phe Ser Leu Pro Phe Trp Gly
 85 90 95
 Tyr Tyr Ala Ala Asp Gln Trp Val Phe Gly Leu Gly Ile Cys Lys Met
 100 105 110
 Ile Ser Trp Met Tyr Leu Val Gly Phe Tyr Ser Gly Ile Phe Phe Val
 115 120 125
 Met Ile Met Ser Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Glu
 130 135 140
 Xaa Xaa Xaa Ala Arg Thr Ile Ile Tyr Gly Val Ile Thr Ser Leu Ala
 145 150 155 160
 Thr Trp Ser Val Ala Val Phe Ala Ser Leu Pro Gly Phe Ile Phe Ser
 165 170 175
 Thr Cys Tyr Thr Glu Arg Asn His Thr Tyr Cys Lys Thr Lys Tyr Ser
 180 185 190
 Leu Asn Ser Thr Thr Trp Lys Val Leu Ser Ser Leu Glu Ile Asn Ile
 195 200 205
 Leu Gly Leu Val Ile Pro Leu Gly Ile Met Leu Phe Cys Tyr Ser Met
 210 215 220
 Ile Ile Arg Thr Leu Gln His Cys Lys Asn Glu Lys Lys Asn Lys Ala
 225 230 235 240
 Val Lys Met Ile Phe Ala Val Val Val Leu Phe Leu Gly Phe Trp Thr
 245 250 255
 Pro Tyr Asn Ile Val Leu Phe Leu Glu Thr Leu Val Glu Leu Glu Val
 260 265 270
 Ile Gln Asp Cys Thr Phe Glu Arg Tyr Leu Asp Tyr Ala Ile Gln Ala
 275 280 285
 Thr Glu Thr Leu Ala Phe Val His Cys Cys Leu Asn Pro Ile Ile Tyr
 290 295 300

Seq.ST25.txt

Phe Phe Leu Gly Glu Lys Phe Arg Lys Tyr Ile Ile Gln Leu Phe Lys
305 310 315 320

Xaa Xaa Xaa Gly Leu Phe Val Ile Cys Gln Tyr Cys Gly Leu Leu Gln
325 330 335

Ile Tyr Ser Ala Asp Thr Pro Ser Ser Ser Tyr Thr Gln Ser Thr Met
340 345 350

Asp His Asp Leu His Asp Ala Leu
355 360

<210> 11
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<212> PRT
<213> Homo sapiens

<400> 11

Phe Pro Tyr Ser Gln Tyr Gln Phe Trp Lys Asn Phe Gln Thr Leu Lys
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Tyr Ser Gly Ile Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys
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Arg

<210> 12
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cttcggtgct gaaatgagaa gaagagg 147

<210> 13
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<212> PRT
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<400> 13

Phe Pro Tyr Ile Lys Asp Ser His Leu Gly Ala Gly Pro Ala Ala Ala
1 5 10 15

Seq.ST25.txt

Cys His Gly His Leu Leu Leu Gly Asn Pro Lys Asn Ser Ala Ser Val
 20 25 30

Ser Lys

<210> 14
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<220>
 <221> primer_bind
 <222> (1)..(27)
 <223> Primer used to amplify the full size coding region of the CCR5 gene

<400> 14
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<210> 15
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<220>
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 <223> Primer to amplify the full size coding region of the CCR5 gene

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<210> 16
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<220>
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 <223> Primer used to amplify CCR5 from genomic DNA samples

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<210> 17
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 <213> ARTIFICIAL SEQUENCE

<220>
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Seq.ST25.txt

<222> (1)..(27)

<223> primer used to amplify CCR5 from genomic DNA samples

<400> 17

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27

<210> 18

<211> 215

<212> PRT

<213> Homo sapiens

<400> 18

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 1 5 10 15

Ser Glu Pro Cys Gln Lys Ile Asn Val Lys Gln Ile Ala Ala Arg Leu
 20 25 30

Leu Pro Pro Leu Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn
 35 40 45

Met Leu Val Ile Leu Ile Leu Ile Asn Cys Lys Arg Leu Lys Ser Met
 50 55 60

Thr Asp Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp Leu Phe Phe Leu
 65 70 75 80

Leu Thr Val Pro Phe Trp Ala His Tyr Ala Ala Ala Gln Trp Asp Phe
 85 90 95

Gly Asn Thr Met Cys Gln Leu Leu Thr Gly Leu Tyr Phe Ile Gly Phe
 100 105 110

Phe Ser Gly Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu
 115 120 125

Ala Val Val His Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe
 130 135 140

Gly Val Val Thr Ser Val Ile Thr Trp Val Val Ala Val Phe Ala Ser
 145 150 155 160

Leu Pro Gly Ile Ile Phe Thr Arg Ser Gln Lys Glu Gly Leu His Tyr
 165 170 175

Thr Cys Ser Ser His Phe Pro Tyr Ile Lys Asp Ser His Leu Gly Ala
 180 185 190

Seq.ST25.txt
Gly Pro Ala Ala Ala Cys His Gly His Leu Leu Leu Gly Asn Pro Lys
195 200 205

Asn Ser Ala Ser Val Ser Lys
210 215